

Features

- Universal Input 90~264V AC
- Ultra Slim Design
- High Efficiency
- 100% Full load burn-in Test
- Protection: OLP, OVP, SCP
- Class II Isolation
- 3 years warranty



Ideal Power's 56YSD15S-xy 15W DIN Rail Mount AC/DC Power Supply Converter Series are certified to cURus, CE, RoHS & IEC/UL/EN62368 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	Output Voltage (V DC)	Voltage Adj. Range (V)	Output Current (A)	Output Power (W)	Efficiency (%)	Ripple & Noise (mVp-p)
56YSD15S-0502400	5	4.5~5.5	2.4	12	80	80
56YSD15S-1201250	12	10.8~13.8	1.25	15	85	120
56YSD15S-1501000	15	13.5~18	1	15	85.5	120
56YSD15S-2400630	24	21.6~29	0.63	15	86	150
56YSD15S-4800310	48	43.2~55.2	0.310	15	87	240

Input Specifications

Input Electrical Phase	Single
Line Frequency	50-60Hz
Inrush Current	25 Amps max. at 115VAC/60Hz, full load & 45Amps max. at 240VAC/50Hz, full load
AC Current	0.5A/115VAC 0.25A/230VAC
Efficiency Type	79~86% Depending on Model
Leakage Current	<0.25mA/240VAC

Output Specifications

Output Voltage Adjustment	+/- 10% Depending on Model
Ripple and Noise	80~150 mV Depending on Model
Line Regulation	± 1%
Load Regulation	± 1%
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 / 70% RH
Setup, Rise, Hold Up time	2S/80mS/15mS (115V/60HZ MAX ROAD), 1S/80mS/30mS (230V/50HZ MAX ROAD)
MTBF	1000K hrs min. MIL-HDBK-217F (25°C)

General Specification

Type	DIN Rail Power Supply
AC or DC Input Voltage	AC
AC or DC Output Voltage	DC
Number of Outputs	1
Mounting Style	Din Rail Mount
Connection Type	Screw Terminal Type
Overload Protection	>130%-200% rated output power (Hiccup mode, recovers automatically after fault condition is re-moved)
Over Current Protection	110% - 180%
Short Circuit Protection	Protection to Zero Voltage
Over Voltage Protection	110~145% (Protection Type: Clamp by zener diode)

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	58mm x 18mm x 90mm
Overall Length	90mm
Overall Depth	58mm
Overall Width	18mm
Weight	78g

Operational Environment

Operating Humidity	20% ~ 90% RH non-condensing
Operating Temperature Range	-20°C to 50°C, Full load, Normal operation.
Storage Temperature Range	-40°C to 80°C
Storage Humidity	10% ~ 90% RH
Cooling	Cooling

Protection Category

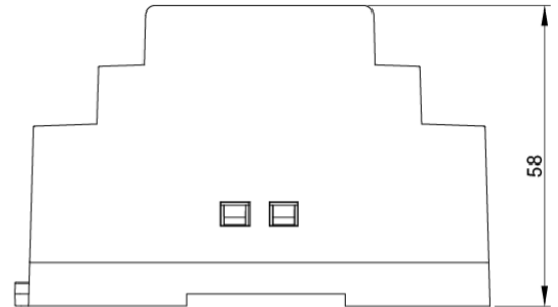
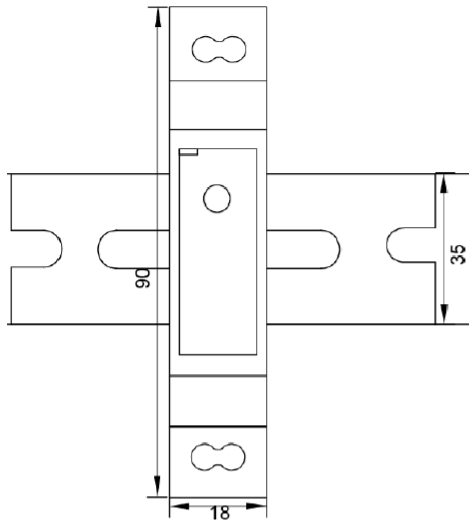
IP Rating	IP20
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Approvals

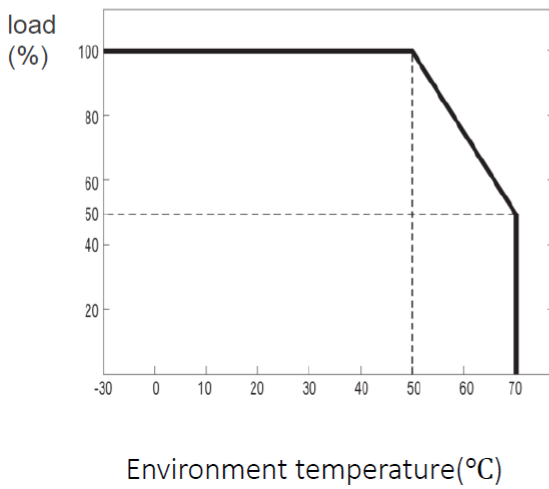
Safety Standard	UL60950-1, UL508, , BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1
EMC Emissions	EN55032(CISPR32), CNS13438 Class B ,EN61000-3-2 Class A ,EN61000-3-3,EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3

Mechanical Drawing

■ Dimensions and Installation:



■ Deduction curve and temperature:



■ Minus output and input voltage curves:

